

IN THE CLAIMS:

1 1. (Currently Amended) A method of transferring ownership of a volume comprising a
2 plurality of disks from a source ~~file~~-server to a destination ~~file~~-server comprising the steps
3 of:
4 changing ownership information stored in each of the plurality of disks to an un-
5 owned state from a state of source ~~file~~-server ownership; and
6 changing ownership information stored in each of the plurality of disks to a state of
7 destination ~~file~~ server ownership from the un-owned state.

1 2. (Currently Amended) The method of claim 1 wherein the step of changing ownership
2 information stored in each of the plurality of disks to an un-owned state further comprises
3 the steps of:
4 changing a first ownership attribute of the disks to an un-owned state, where the
5 first ownership attribute is a predetermined ownership sector on each disk; and
6 changing a second ownership attribute of the disks to an un-owned state, where
7 the second ownership attribute is a small computer systems interface (SCSI) reservation.

1 3. (Currently Amended) The method of claim 1 wherein the step of changing ownership
2 information stored in each of the disks to a destination ~~file~~ server ownership further com-
3 prises the steps of:
4 changing a first ownership attribute of the disks to a destination ~~file~~ server state,
5 where the first ownership attribute is a predetermined ownership sector on each disk; and
6 changing a second ownership attribute of the disks to a destination ~~file~~-server
7 state, where the second ownership attribute is a small computer systems interface (SCSI)
8 reservation.

1 4. (Currently Amended) A method for transferring ownership of a volume having a plu-
2 rality of disks, the method comprising the steps of:
3 | sending a first message to a source file-server, the message containing a request
4 for transferring ownership of a volume of disks;
5 | receiving a response from the source file server;
6 | if the response contains abort information, aborting the transfer;
7 | if not, verifying that the volume can be transferred;
8 | if the volume can be transferred, sending a second message to the source file
9 server to perform the first part of a transfer process to transfer ownership from the source
10 file server to an un-owned state;
11 | receiving a response from the source file-server after it performed the first part of
12 the transfer process; and
13 | in response to the step of receiving, performing a second part of the transfer proc-
14 | ess to transfer ownership from the un-owned state to a destination file-server.

1 5. (Currently Amended) The method of claim 4 wherein the second part of the transfer
2 process further comprises the steps of:
3 | changing a first ownership attribute of the disks to a destination file-server state,
4 where the first ownership attribute is a predetermined ownership sector on each disk; and
5 | changing a second ownership attribute of the disks to a destination file-server
6 state, where the second ownership attribute is a small computer systems interface (SCSI)
7 reservation.

1 6. (Currently Amended) A method for transferring ownership of a volume having a plu-
2 rality of disks comprising the steps of:

3 verifying that the disks can be transferred in response to an initial request from a
4 destination ~~file~~-server;
5 sending an acknowledgement by the source ~~file~~-server to the destination ~~file~~
6 server;
7 receiving a second-request from the destination ~~file~~-server;
8 aborting if the second-request contains abort information;
9 changing the volume to an off-line status in response to the second-request not
10 containing abort information;
11 performing a first part of a transfer process, the first part of the transfer process
12 being transferring ownership from the source ~~file~~-server to an un-owned state; and
13 sending a message to the destination ~~file~~-server to prompt a second part of the
14 transfer process, the second part of the transfer process being transferring ownership from
15 the un-owned state to the destination server.

1 7. (Currently Amended) The method of claim 6 wherein the first part of the transfer proc-
2 ess further comprises the steps of:

3 changing a first ownership attribute of the disks to an un-owned state, where the
4 first ownership attribute is a predetermined ownership sector on each disk; and
5 changing a second ownership attribute of the disks to an un-owned state, where
6 the second ownership attribute is a small computer systems interface (SCSI) reservation.

1 8. (Currently Amended) A method of transferring ownership of a volume having a plural-
2 ity of disks comprising the steps of:

3 writing a first destination log-~~file~~;
4 verifying that the plurality of disks can be transferred;
5 writing a first source log-~~file~~;
6 verifying that the volume can be accepted by the destination;

7 writing a second destination log ~~file~~;
8 writing a second source log ~~file~~;
9 performing a first part of a transfer process by changing ownership information on
10 each disk to an un-owned state from a source server owned state;
11 writing a third source log ~~file~~;
12 writing a third destination log ~~file~~;
13 performing a second part of the transfer process by changing the ownership in-
14 formation on each disk from a destination sever owned state from the un-owned state;
15 and
16 erasing the previously written logs.

1 9. (Currently Amended) A method of transferring ownership of a volume having a plural-
2 ity of disks comprising the steps of:

3 writing a first log ~~file~~ to record a first part of a transfer process;
4 performing the first part of the transfer process, the first part of the transfer proc-
5 ess being changing ownership information stored on each disk of the volume from a
6 source server to an un-owned state;
7 writing a second log ~~file~~ to record a second part of the transfer process; and
8 performing the second part of the transfer process, the second part of the transfer
9 process being changing ownership information stored on each from the un-owned state to
10 a destination server.

1 10. (Currently Amended) A computer-readable medium for modifying ownership of
2 disks relative to a source file server and a destination file server, the computer-readable
3 medium including instructions for performing the steps of:
4 in the source ~~file~~-server, moving the disks from a source-owned state to an un-
5 owned state; and

6 | in the destination ~~file~~-server, moving the disks from the un-owned state to a desti-
7 | nation-owned state.

1 | 11. (Currently Amended) The computer-readable medium of claim 10 wherein the step of
2 | moving the disks to an un-owned state further comprises the steps of:

3 | changing first ownership attribute of the disks to an un-owned state, where the
4 | first ownership attribute is a predetermined ownership sector on each disk; and

5 | changing a second ownership attribute of the disks to an un-owned state, where
6 | the second ownership attribute is a small computer systems interface (SCSI) reservation.

1 | 12. (Currently Amended) The computer-readable medium of claim 10 wherein the step of
2 | moving the disks from an un-owned state to a destination-owned state further comprises
3 | the steps of:

4 | changing first ownership attribute of the disks to a destination-owned state,
5 | where the first ownership attribute is a predetermined ownership sector on each disk; and

6 | changing a second ownership attribute of the disks to a destination-owned state,
7 | where the second ownership attribute is a small computer systems interface (SCSI) reser-
8 | vation.

1 | 13. (Currently Amended) A system for transferring ownership of a volume having a disk
2 | from a source ~~file~~-server to a destination ~~file~~-server, the system comprising:

3 | means for changing ownership information stored in each of the disk from a state
4 | of source ~~file~~-server ownership to an un-owned state; and

5 | means for changing ownership information stored in each the disk from an un-
6 | owned state to a destination ~~file~~-server-owned state.

1 14. (Currently Amended) The system of claim 13 wherein the means for changing owner-
2 ship information from a state of source ~~file-server~~ ownership to an un-owned state further
3 comprises:

4 means for changing ownership information stored in a predetermined sector of the
5 disk to an un-owned state; and

6 means for changing a small computer system interface level 3-reservation of the
7 disk to an un-owned state.

1 15. (Currently Amended) The system of claim 13 wherein the means for changing owner-
2 ship information from an un-owned state to a destination ~~file-server-owned~~ state further
3 comprises:

4 means for changing ownership information stored in a predetermined sector of the
5 disk to a destination ~~file-server-owned~~ state; and

6 means for changing a small computer system interface level 3-reservation of the
7 disk to a destination ~~file-server-owned~~ state.

1 16. (Currently Amended) A method of transferring ownership of a volume having a plu-
2 rality of disks from a source ~~file-server~~ to a destination ~~file-server~~, the method comprising
3 the steps of:

4 changing a first attribute of ownership from source server ownership to an un-
5 owned state by writing the change to a log file-data structure and rewriting the first attrib-
6 ute of ownership on the disk, where the first attribute is a predetermined ownership sector
7 on each disk;

8 changing a second attribute of ownership from source ownership to an un-owned
9 state by writing the change to a second log file-data structure and rewriting the second

10 | attribute of ownership on the disk, where the second attribute is small computer systems
11 | interface (SCSI) reservation;

12 | changing the first attribute of ownership from the un-owned state of ownership to
13 | destination server ownership by writing the change to a third log file-data structure and
14 | rewriting the first attribute of ownership on the disk; and

15 | changing the second attribute of ownership from the un-owned state to destination
16 | server ownership by writing the change to a fourth log file-data structure and rewriting the
17 | second attribute of ownership on the disk.

1 | 17. (Currently Amended) The method of claim 16, further comprising:

2 | in the event of a failure during the process of transferring ownership, utilizing the
3 | log files-data structures to continue the process of changing ownership.

1 | 18. (Currently Amended) A system to transfer ownership of a volume having a plurality
2 | of disks from a source ~~file~~-server to a destination ~~file~~-server, comprising:

3 | means for changing a first attribute of ownership from source server ownership to
4 | an un-owned state by writing the change to a log ~~file~~data structure and rewriting the first
5 | attribute of ownership on the disk, where the first attribute is a predetermined ownership
6 | sector on each disk;

7 | means for changing a second attribute of ownership from source ownership to an
8 | un-owned state by writing the change to a second log file-data structure and rewriting the
9 | second attribute of ownership on the disk, where the second attribute is a small computer
10 | systems interface (SCSI) reservation;

11 | means for changing the first attribute of ownership from the un-owned state of
12 | ownership to destination server ownership by writing the change to a third log file-data
13 | structure and rewriting the first attribute of ownership on the disk; and

1 means for changing the second attribute of ownership from the un-owned state to
2 destination server ownership by writing the change to a fourth log file-data structure and
3 rewriting the second attribute of ownership on the disk.

1 19. (Currently Amended) The system of claim 18, further comprising:

2 in the event of a failure during the process of transferring ownership, means for
3 utilizing the log ~~files~~-data structures to continue the process of changing ownership.

1 20. (Currently Amended) A system to transfer ownership of a volume having a plurality
2 of disks from a source ~~file~~-server to a destination ~~file~~-server, comprising:

3 a first computer to change a first attribute of ownership from source server owner-
4 ship to an un-owned state by writing the change to a log ~~file~~data structure and rewriting
5 the first attribute of ownership on the disk, where the first attribute is a predetermined
6 ownership sector on each disk;

7 a second computer to change a second attribute of ownership from source owner-
8 ship to an un-owned state by writing the change to a second log file-data structure and
9 rewriting the second attribute of ownership on the disk, where the second attribute is a
10 small computer systems interface (SCSI) reservation;

11 a third computer to change the first attribute of ownership from the un-owned
12 state of ownership to destination server ownership by writing the change to a third log
13 file-data structure and rewriting the first attribute of ownership on the disk; and

14 a fourth computer to change the second attribute of ownership from the un-owned
15 state to destination server ownership by writing the change to a fourth log file-data struc-
16 ture and rewriting the second attribute of ownership on the disk.

1 21. (Currently Amended) The system of claim 20, further comprising:

2 in the event of a failure during the process of transferring ownership, a computer
3 | to utilize the log files data structures to continue the process of changing ownership.

1 22. (Previously Presented) The system of claim 20, further comprising:
2 the first computer, the second computer, the third computer, and the fourth com-
3 puter are a single computer.

1 23. (Previously Presented) The system of claim 22, further comprising:
2 the single computer is the destination server.

1 24. (Previously Presented) The system of claim 20, further comprising:
2 the first computer and the second computer are the source server.

1 25. (Previously Presented) The system of claim 20, further comprising:
2 the third computer and the fourth computer are the destination server.

1 26. -27. (Cancelled)

1 Please add new claims 28 et al.

1 28. (New) The method of claim 1, wherein the ownership information includes a small
2 computer systems interface (SCSI) reservation.

1 29. (New) The method of claim 1, wherein the ownership information includes a prede-
2 termined ownership sector on each disk.

1 30. (New) The method of claim 1, wherein the ownership information includes a prede-
2 termined ownership sector on each disk and a small computer systems interface (SCSI)
3 reservation.

1 31. (New) A method of transferring ownership of a volume comprising a plurality of
2 disks from a source server to a destination server comprising the steps of:
3 verifying that the disks can be transferred in response to an initial request from a
4 destination server; and
5 changing ownership information stored in each of the plurality of disks between
6 three states including: a source server ownership state, an un-owned state, and a destina-
7 tion server ownership state.

1 32. (New) The method of claim 31, wherein the ownership information includes a small
2 computer systems interface (SCSI) reservation.

1 33. (New) The method of claim 31, wherein the ownership information includes a prede-
2 termined ownership sector on each disk.

1 34. (New) The method of claim 31, wherein the ownership information includes a prede-
2 termined ownership sector on each disk and a small computer systems interface (SCSI)
3 reservation.